

## Product datasheet for **MG222275**

### Ltc4s (NM\_008521) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ltc4s (NM\_008521) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ltc4s  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222275 representing NM\_008521  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGGACGAAGTGGCTCTTCTGGCTACCGTCACCCCTCGTGGGAGTTCTGTTGCAAGCCTACTTCTCCC  
 TACAGGTGATCTCTGCACGAAGGGCTTCCACGTGTCGCCCGCTCACCTCTGGCCCTCCCGAGTTCGA  
 GCGCGTCTCCGAGCCCAGGTAAGTGCAGCGAGTACTTCCGCTGTTCCCTCGCCACACTCTGGGTGCGC  
 GGCATCTTCTCCACGAAGGAGCCGAGCCCTGTGCGGACTGTTCTACCTGTTGCGCGCCCTCCGCTATT  
 TCCAGGGATACGCGCGCTCAGCGCAACTCAGGCTGACTCCCCTATACGCGAGCGCGCGCACTCTGGCT  
 GCTGGTGGCGATGGCTGCACTGGGCTTGCTAGTCCACTTCCCTCCCGGCAGCTACGGACTGCGCTCTTC  
 AGATGGCTCCAGATGCTCCTGCCGATGGCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG222275 representing NM\_008521  
 Red=Cloning site Green=Tags(s)

MKDEVALLATVTLVGVLQAYFSLQVISARRAFHVSPPLTSGPPEFERVFRQVNCSEYFPLFLATLWVA  
 GIFFHEGAAALCGLFYLFARLRYFQGYARSAQLRLTPLYASARALWLLVAMAALGLLVHFLPGTLRLTALF  
 RWLQMLLPMA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



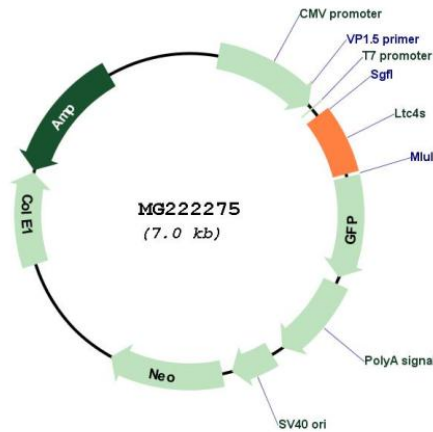
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Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_008521

ORF Size: 450 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_008521.2</a>
<b>RefSeq Size:</b>	588 bp
<b>RefSeq ORF:</b>	453 bp
<b>Locus ID:</b>	17001
<b>UniProt ID:</b>	<a href="#">Q60860</a>
<b>Cytogenetics:</b>	11 B1.3
<b>Gene Summary:</b>	The protein encoded by this gene is an enzyme that catalyzes the synthesis of leukotriene C4 by combining leukotriene A4 with reduced glutathione. The encoded protein is found in the outer nuclear membrane and in the peripheral endoplasmic reticulum. Leukotrienes have been implicated as mediators of anaphylaxis and inflammatory conditions such as bronchial asthma in humans. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]